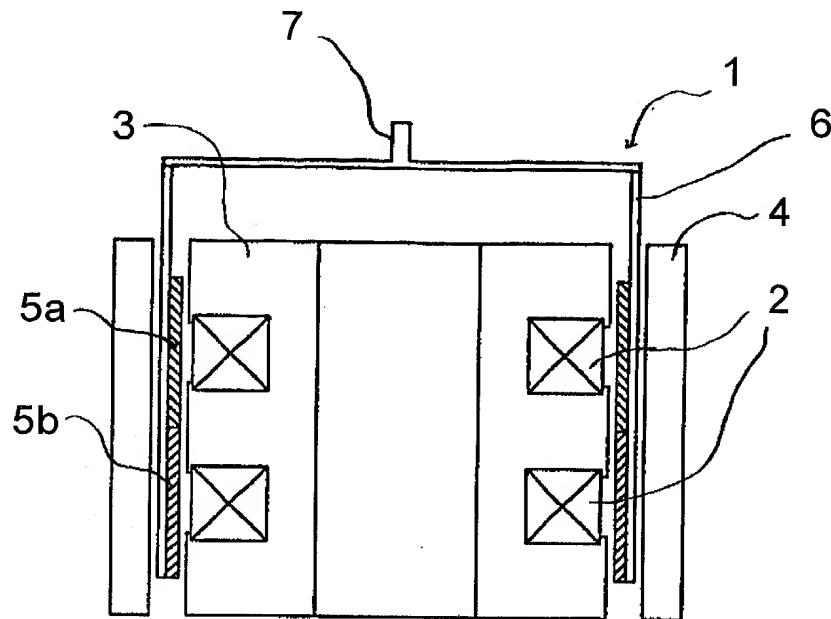
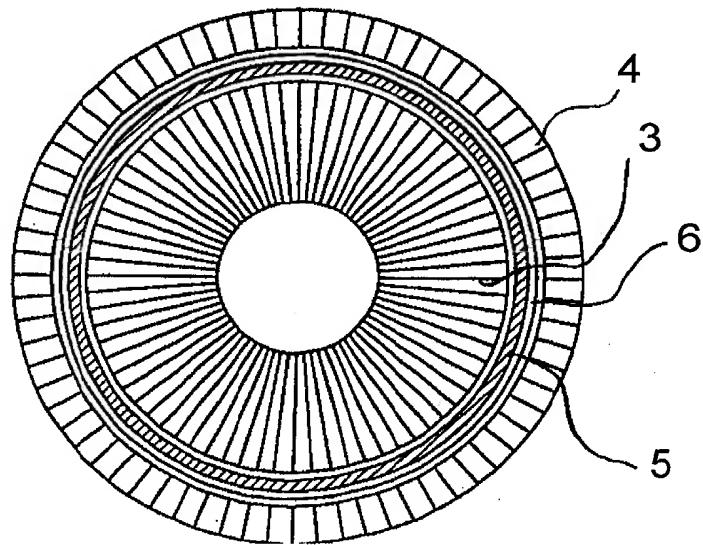


**Fig.1**

( a )

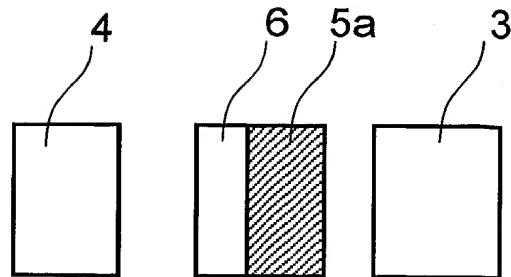


( b )

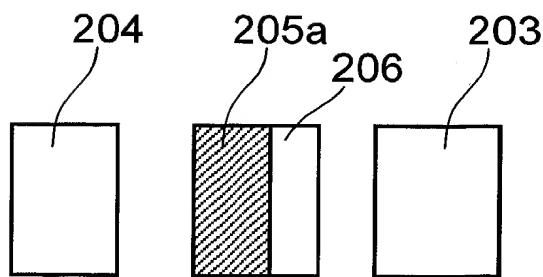
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**Fig.2**



( a )

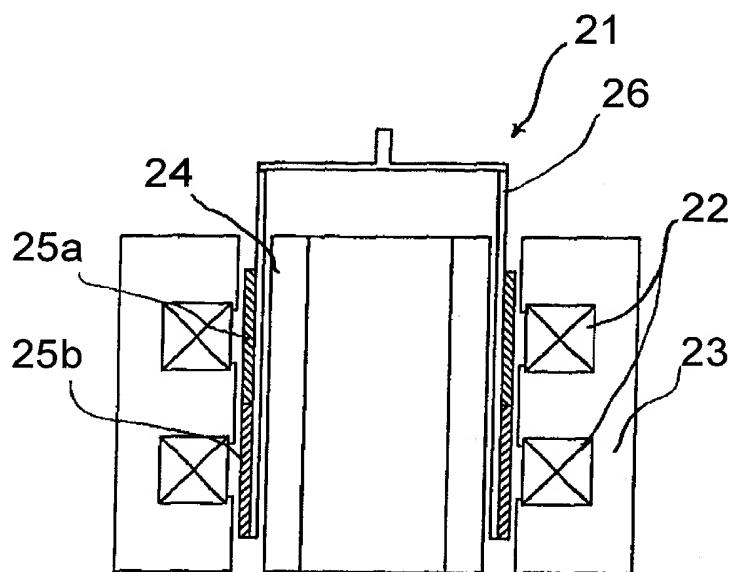


( b )

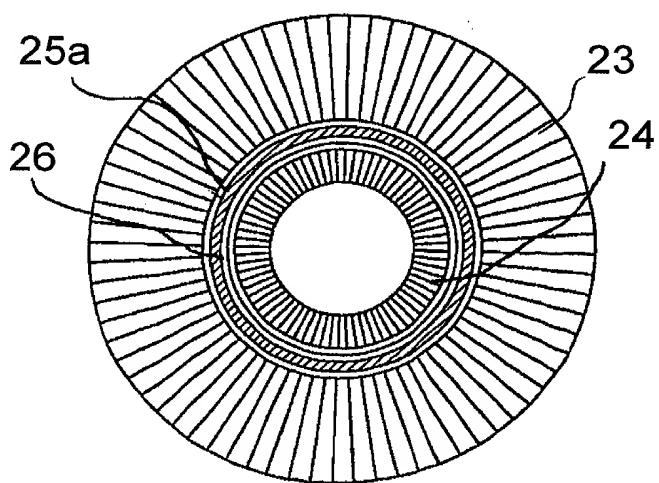
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**Fig.3**



( a )

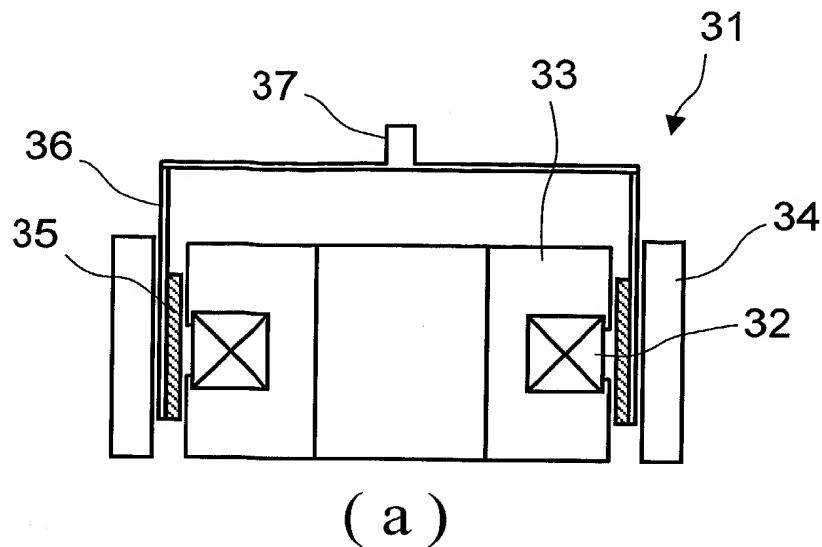


( b )

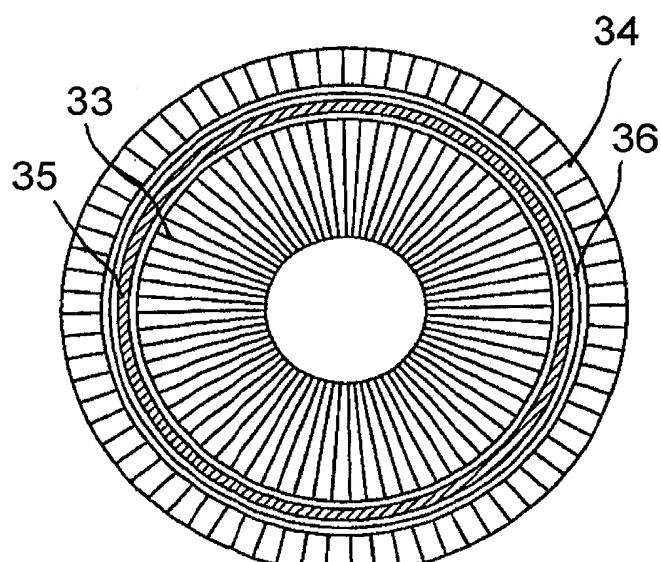
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**Fig.4**



( a )

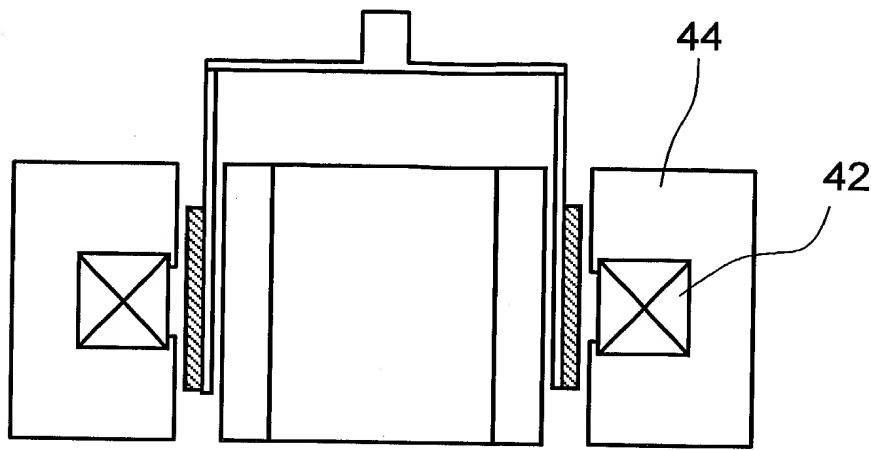


( b )

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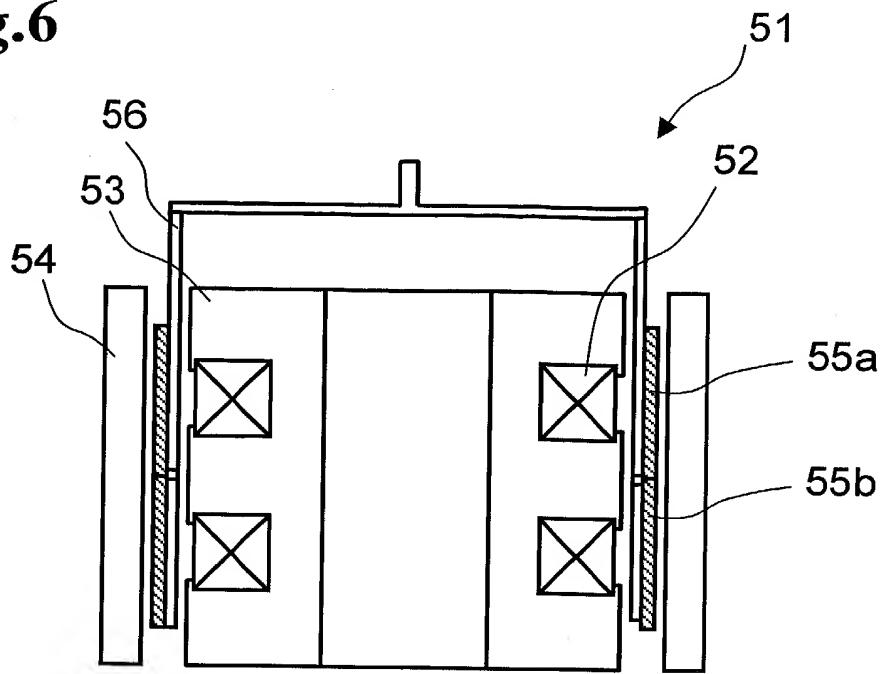
**Fig.5**



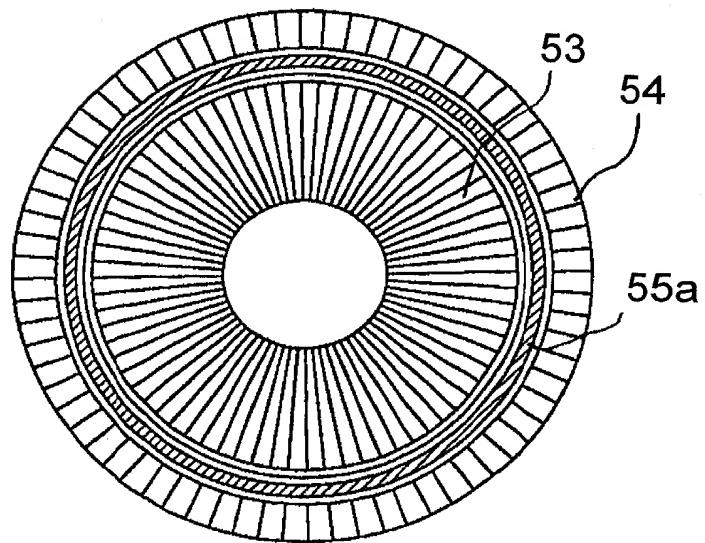
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**Fig.6**



( a )

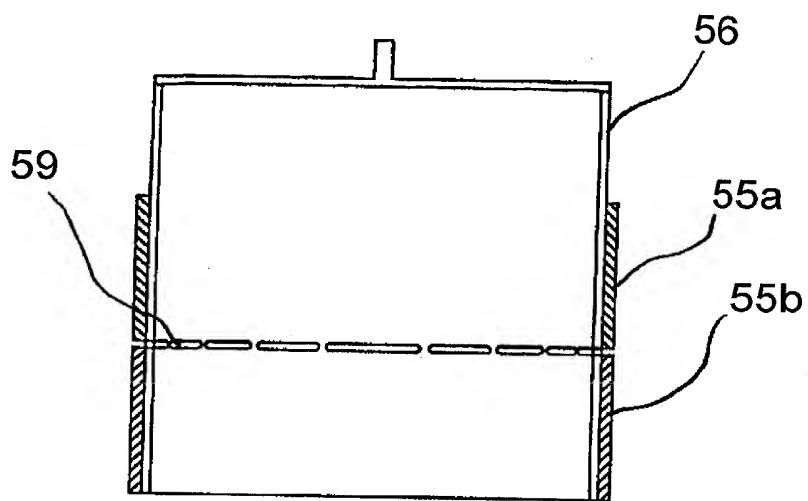


( b )

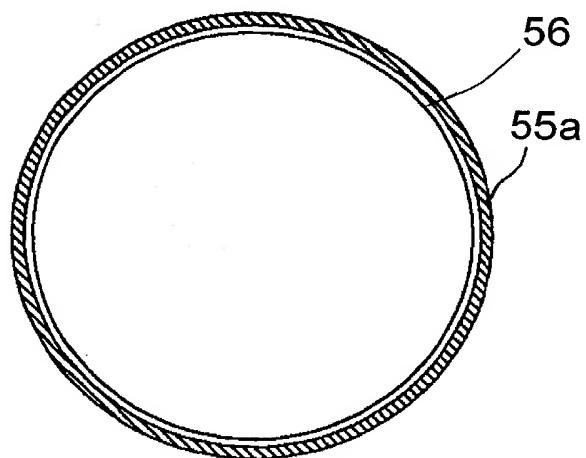
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**Fig.7**



( a )

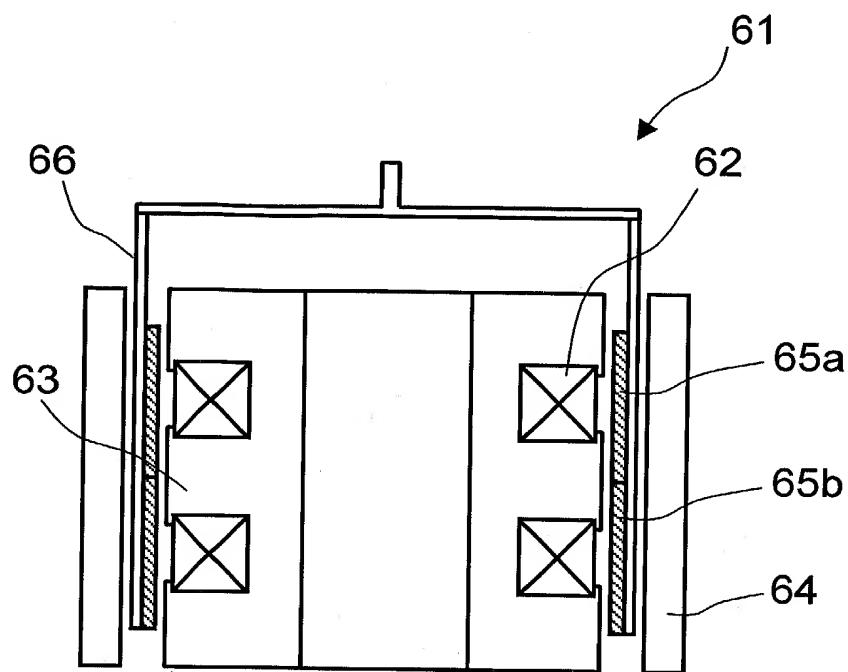


( b )

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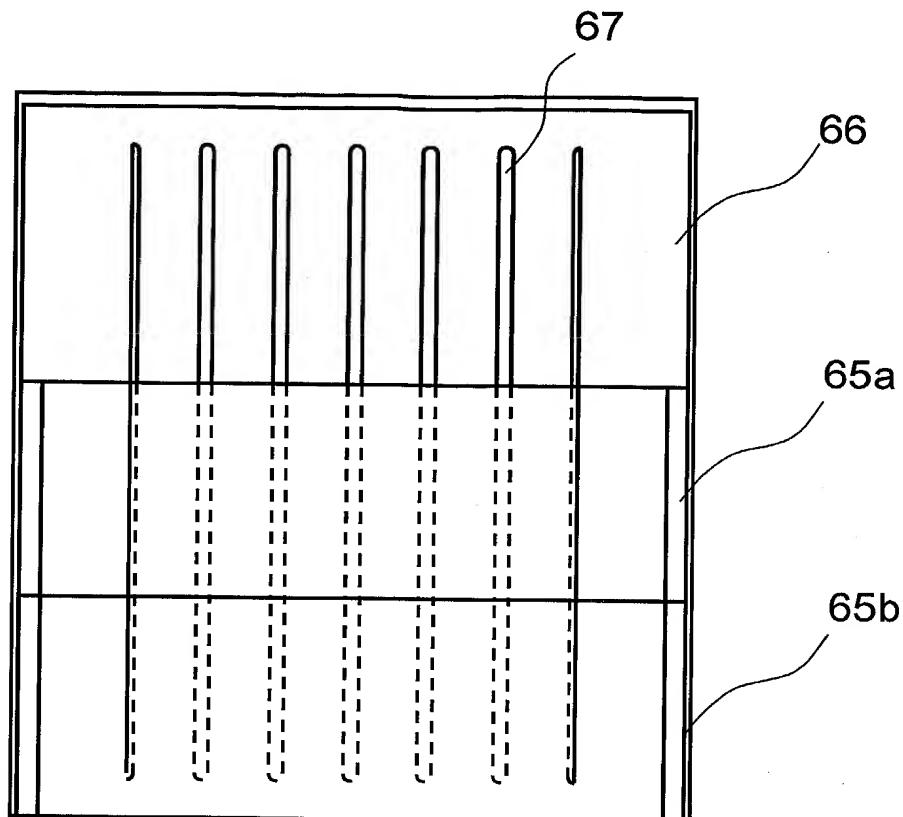
**Fig.8**



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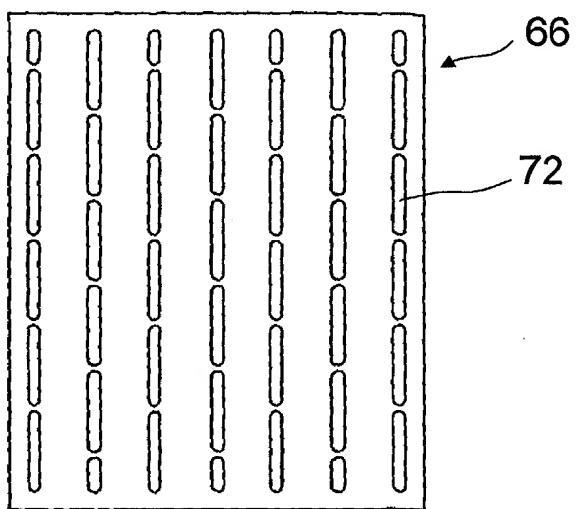
**Fig.9**



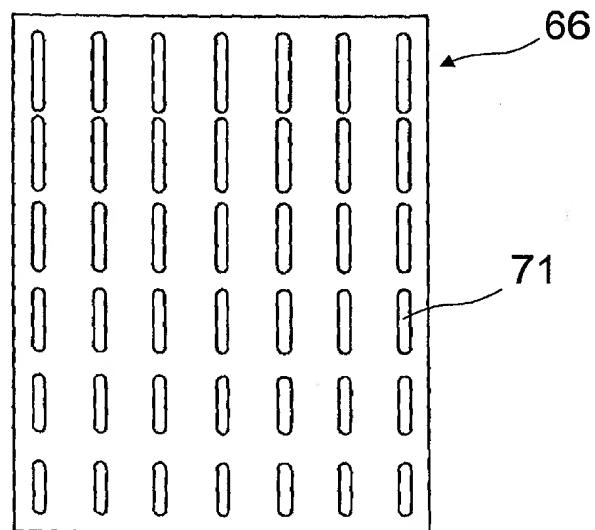
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**Fig.10**



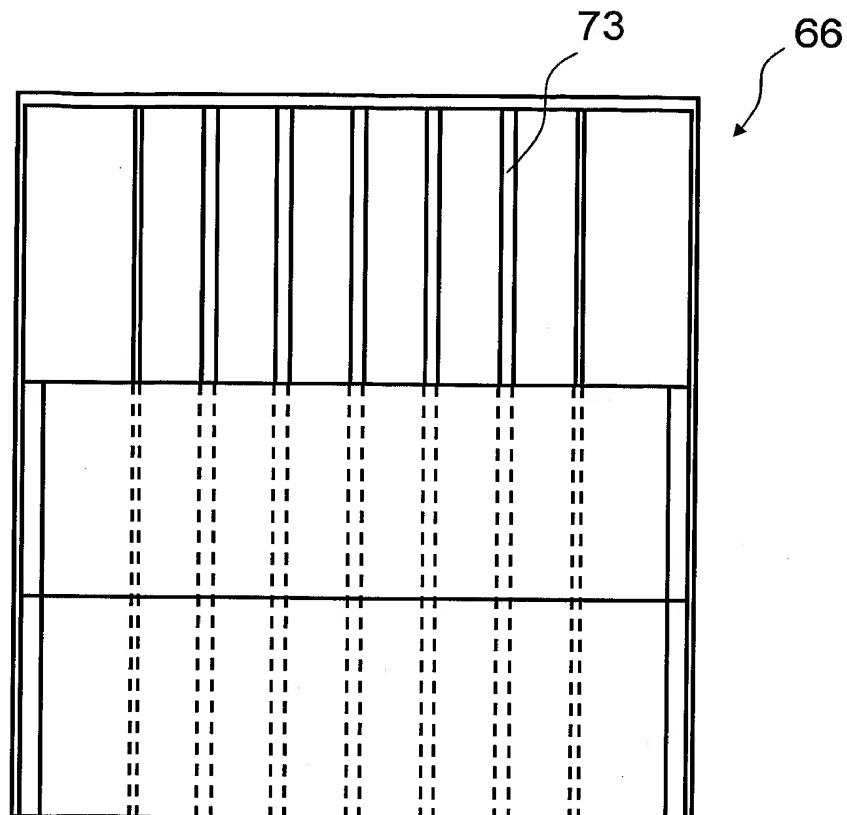
**Fig.11**



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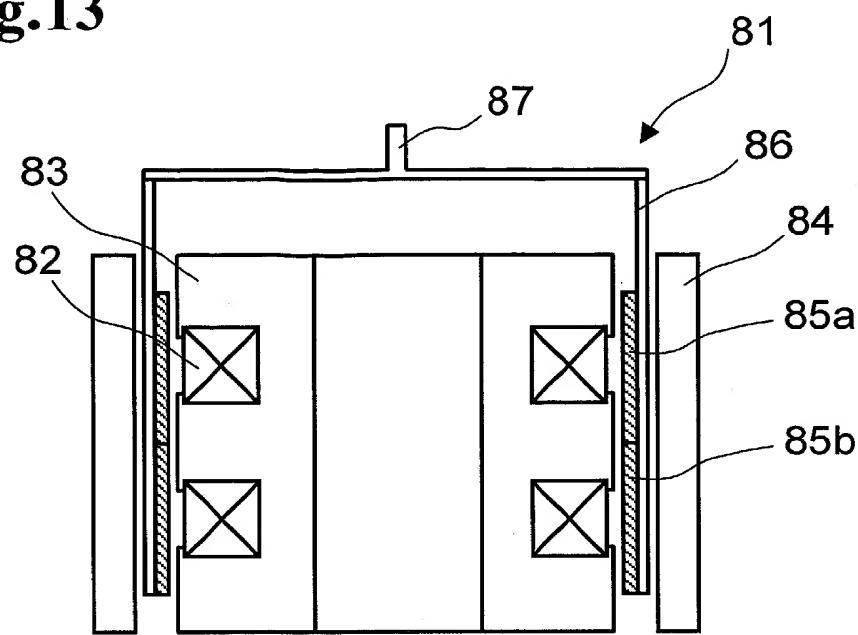
Fig.12



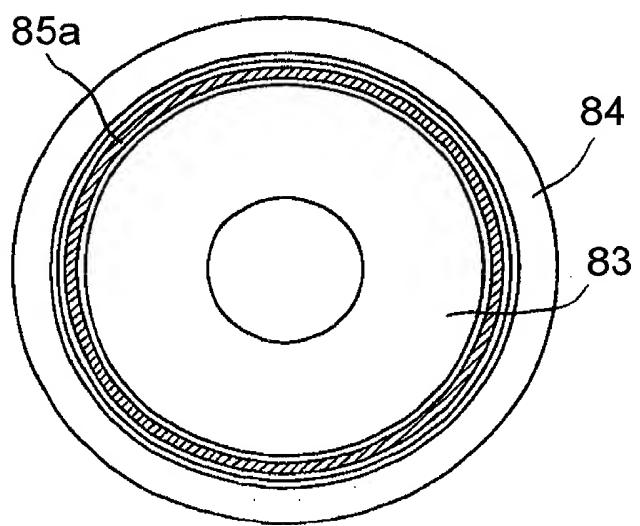
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**Fig.13**



( a )

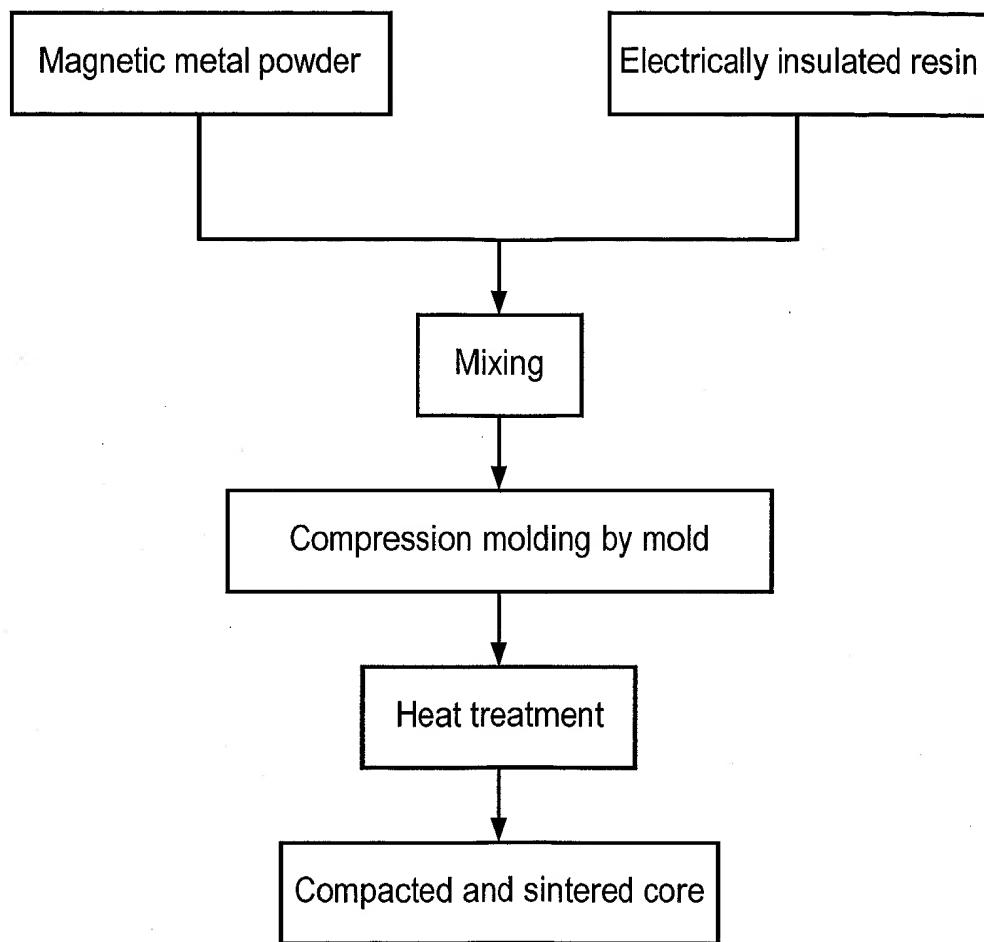


( b )

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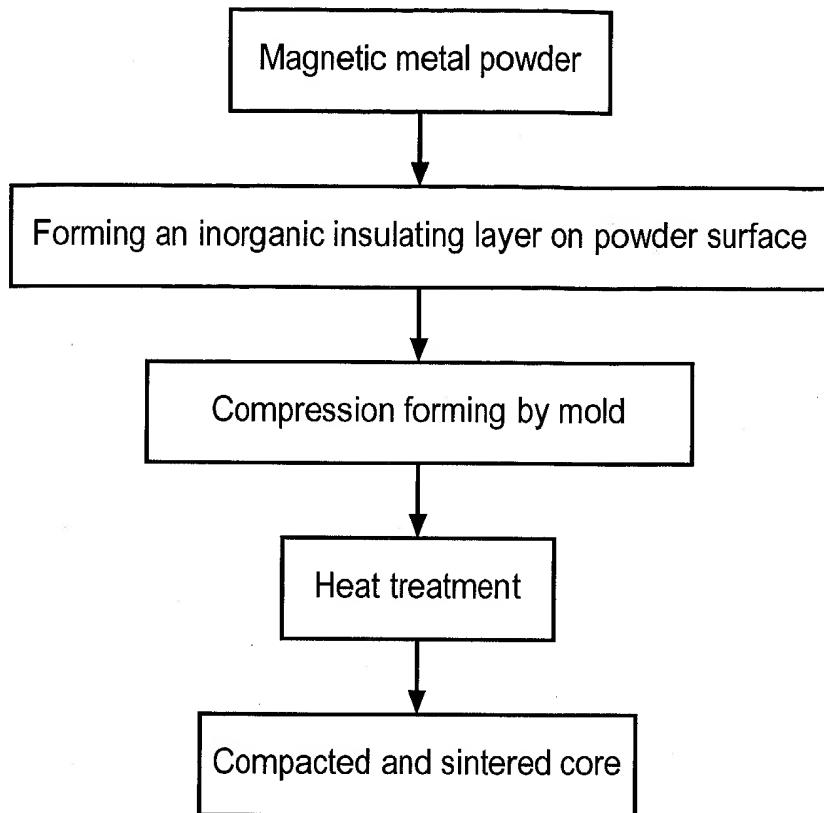
**Fig.14**



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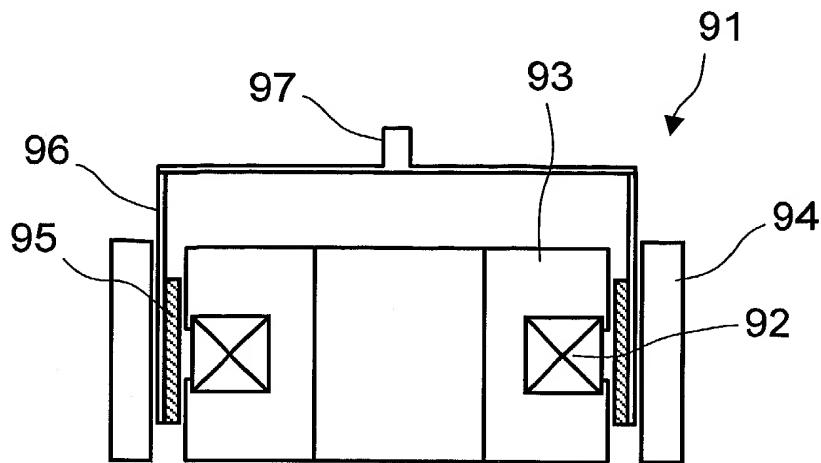
**Fig.15**



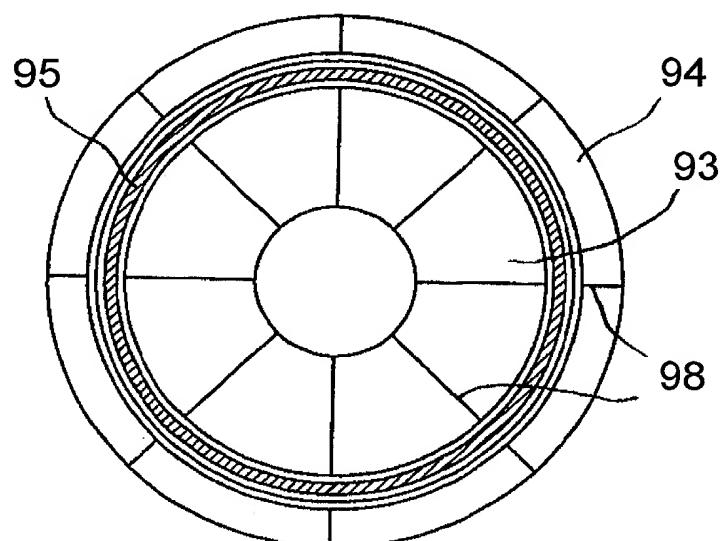
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**Fig.16**



( a )

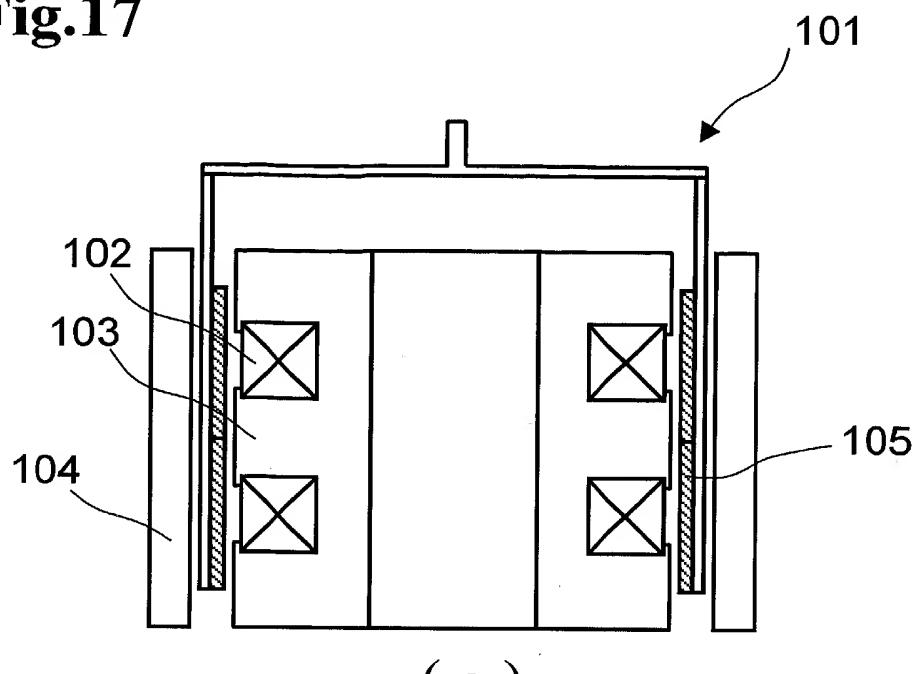


( b )

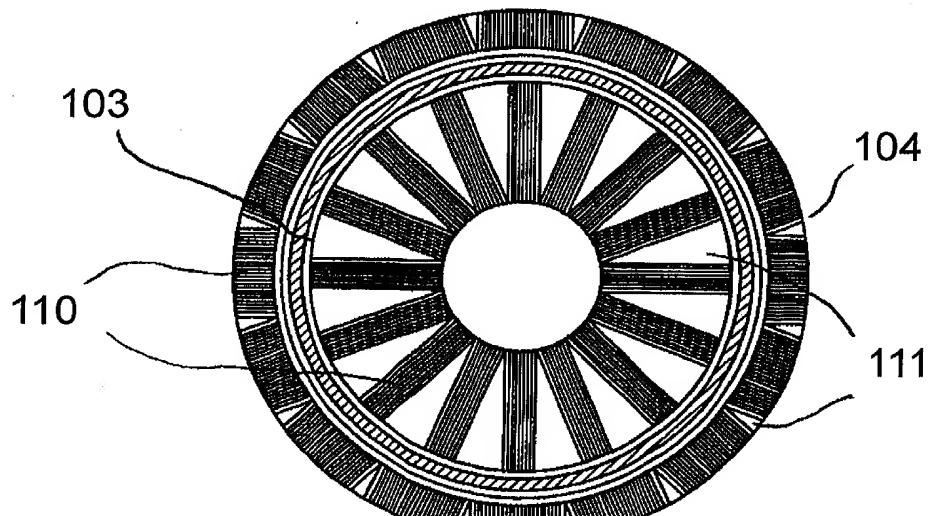
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**Fig.17**



( a )

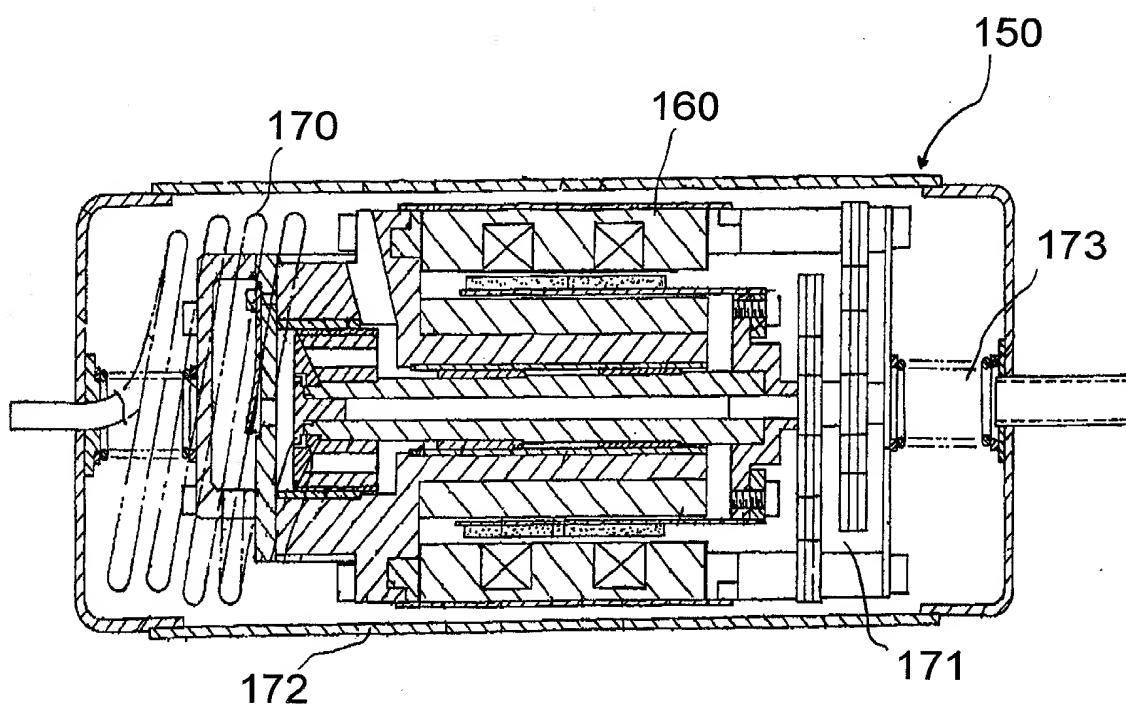


( b )

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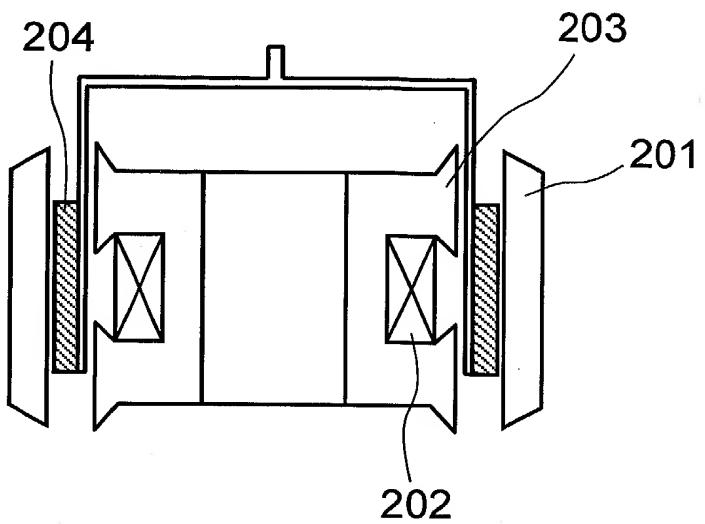
**Fig. 18**



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**Fig.19**



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Reference numerals in the drawings

- 1 Linear motor
- 2 Coil
- 3 Inner yoke
- 4 Outer yoke
- 5a,5b Permanent magnet
- 6 Vibrator